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AN ISO 9001 : 2008 COMPANY & NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST RESULTS OF GRADATION FOR WMM

Lab ID : **CP-RW-2017-02-11-01** **Date: 13/2/2017**

Customer : Assistant Executive Engineer, Vidyaranyapura sub division, BBMP, Bangalore.

Address : Vidyaranyapura sub division, BBMP, Bangalore.

Agency : Mohan Kumar.V, #530, Kaliyamma temple road, Kuvempunagar 2nd Stage, Bangalore-560014.

Project Name : Filling of pot holes in ward no.11 Kuvempunagara in Vidyaranyapura sub division.

Work order Ref No : BBMP/EE/BTP/WO/74/2016-17

Source of Sample : WMM(Wet Mix Macadam) Plant

Date of Receipt : 11/2/2017

Sample ID No : 2017-02-11-01/01

Type of Mix : WMM (Wet Mix Macadam)

Date of test : 11/2/2017

Oven Dry Weight(gm) : 12100

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec.I.Vide Table 400.11 MORTH Specification
53	0	0	0	100	100
45	250	250	2.07	97.93	95-100
22.4	3076	3326	27.49	72.51	60-80
11.2	2586	5912	48.86	51.14	40-60
4.75	2217	8129	67.18	32.82	25-40
2.36	1307	9436	77.98	22.02	15-30
0.6	910	10346	85.50	14.50	8-22
0.075	1065	11411	94.31	5.69	0-8

Note:-

The results pertain to the samples received by the customer and tested

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Samples will be disposed after 30 days from the date of issue of test certificate

Prepared By:
Harshitha

AEE (VRP) SD

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.
R KARTHIK RECHAN
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End of Report

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2017-02-11-01** **Date: 13/2/2017**
Customer	:	Assistant Executive Engineer, Vidyaranyapura sub division, BBMP, Bangalore.
Address	:	Vidyaranyapura sub division, BBMP, Bangalore.
Agency	:	Mohan Kumar.V, #530, Kaliyamma temple road, Kuvempunagar 2nd Stage, Bangalore-560014.
Project Name	:	Filling of pot holes in ward no.11 Kuvempunagara in Vidyaranyapura sub division.
Work order Ref No	:	BBMP/EE/BTP/WO/74/2016-17
Source of Sample	:	WMM(Wet Mix Macadam) Plant
Date of Receipt	:	11/2/2017
Sample ID No	:	2017-02-11-01/01
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	11/2/2017

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	305.8	305.2
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	69.5	66.1
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	235.5	238.6
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.8	0.5
5	Aggregate impact value	(B/A)*100	22.73	21.66
6	Aggregate impact value (Mean of two tests)	Pecentage	22.19	

Note:-

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2017-02-11-01** **Date: 13/2/2017**
Customer	:	Assistant Executive Engineer, Vidyaranyapura sub division, BBMP, Bangalore.
Address	:	Vidyaranyapura sub division, BBMP, Bangalore.
Agency	:	Mohan Kumar.V, # 530, Kaliyamma temple road, Kuvempunagar 2nd Stage, Bangalore-560014.
Project Name	:	Filling of pot holes in ward no.11 Kuvempunagara in Vidyaranyapura sub division.
Work order Ref No	:	BBMP/EE/BTP/WO/74/2016-17
Source of Sample	:	WMM(Wet Mix Macadam) Plant
Date of Receipt	:	11/2/2017
Sample ID No	:	2017-02-11-01/01
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	11/2/2017

Result:

Flakiness Index	14.1%
Elongation Index	13.9%
Combined Flakiness & Elongation Index for BC	28.0%

Comments:

Maximum allowable Flakiness & Elongation Index For BC is 30 %

Note:-

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Prepared By:
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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2017-02-15-01** **Date: 16-2-2017**
Customer	:	Assistant Executive Engineer, Vidyaranyapura sub division, BBMP, Bangalore.
Address	:	Vidyaranyapura sub division, BBMP, Bangalore.
Agency	:	Mohan Kumar.V, #530, Kaliyamma temple road, Kuvempunagar 2nd Stage, Bangalore-560014.
Project Name	:	Filling of pot holes in ward no.11 Kuvempunagara in Vidyaranyapura sub division.
Work order Ref No	:	BBMP/EE/BTP/WO/74/2016-17
Source of Sample	:	WMM(Wet Mix Macadam) Plant
Date of Receipt	:	11/2/2017
Sample ID No	:	2017-02-11-01/01
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	15/2/2017
Oven Dry Weight(gm)	:	11890

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec.I.Vide Table 400.11 MORTH Specification
53	0	0	0	100	100
45	301	301	2.53	97.47	95-100
22.4	3290	3591	30.20	69.80	60-80
11.2	2065	5656	47.57	52.43	40-60
4.75	2296	7952	66.88	33.12	25-40
2.36	1287	9239	77.70	22.30	15-30
0.6	1099	10338	86.95	13.05	8-22
0.075	880	11218	94.35	5.65	0-8

Note:-

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Prepared By:
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TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID : **CP-RW-2017-02-24-01** **Date: 25/2/2017**

Customer : Assistant Executive Engineer, Vidyaranyapura sub division, BBMP, Bangalore.

Address : Vidyaranyapura sub division, BBMP, Bangalore.

Agency : Mohan Kumar.V, # 530, Kaliyamma temple road, Kuvempunagar 2nd Stage, Bangalore-560014.

Project Name : Filling of pot holes in ward no.11 Kuvempunagara in Vidyaranyapura sub division.

Work order Ref No : BBMP/EE/BTP/WO/74/2016-17

Date of Receipt : 24/2/2017

Sample ID No : 2017-02-24-01/01

Type of Mix : BC (Bituminous Concrete)

Date of test : 24-2-2017

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	504	502
2	Weight of the sample After extraction	B	474	473
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	5.95	5.78
4	Average percentage	%	5.86	

Prepared By:
Harshitha

24/03/17
AEE (VRP) SD

CIVIL Pro Sig..... Date..... BANGALORE

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Lab ID : **CP-RW-2017-02-24-01** **Date: 25/2/2017**

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 474

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	0	0	0.0	100.0	79-100
9.5	69	69	14.6	85.4	70-88
4.75	143	212	44.7	55.3	53-71
2.36	50	262	55.3	44.7	42-58
1.18	38	300	63.3	36.7	34-48
0.6	30	330	69.6	30.4	26-38
0.3	27	357	75.3	24.7	18-28
0.15	49	406	85.7	14.3	12-20
0.075	43	449	94.7	5.3	4-10
PAN	25	474	100	0.0	0

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 473

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	0	0	0.0	100.0	79-100
9.5	72	72	15.2	84.8	70-88
4.75	89	161	34.0	66.0	53-71
2.36	135	296	62.6	37.4	42-58
1.18	10	306	64.7	35.3	34-48
0.6	22	328	69.3	30.7	26-38
0.3	20	348	73.6	26.4	18-28
0.15	32	380	80.3	19.7	12-20
0.075	52	432	91.3	8.7	4-10
PAN	41	473	100	0.0	0

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